Application No.: NEW

Docket No.: 0033-1065PUS1

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A diamond cutting tool provided with a mono crystalline diamond tip (2) having a cutting edge ridge in a rounded shape at a front end,

wherein a portion of said cutting edge ridge serving at least as a cutting edge (5) is formed to have constant roundness by intersecting a first conical surface as a rake face (3) with a second conical surface as a flank-(4), said cutting edge ridge is rounded with a radius of less than 100 nm, said first conical surface has a width of 1 to 5 µm, and a swarf release face (6) substantially perpendicular to a cutting direction is provided in a portion on a side of said first conical surface opposite a line of said cutting edge ridge.

- 2. (Currently Amended) The mono crystalline diamond tool according to claim 1, wherein an intersection of said first conical surface and said swarf release face (6) has a rounded face.
- 3. (Original) The mono crystalline diamond tool according to claim 2, wherein said rounded face has a radius of 0.1 to 1.0 μm .
- 4. (Original) The mono crystalline diamond tool according to claim 1, wherein said first conical surface has a negative rake angle of 15° to 50°.

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5. (Currently Amended) The mono crystalline diamond tool according to claim 1, wherein there is no lattice defect in a diamond crystal within a range of 100 µm from a front end of said cutting edge-(5).

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